

COMPOSITE DRIVE SYSTEM FOR COMPRESSOR

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ABSTRACT OF THE DISCLOSURE

10 A dynamotor capable of operating as either a motor
or a generator is used with both the armature portion and
the field portion thereof capable of being rotated. In
the case where a pulley operatively interlocked with the
output shaft of the prime mover is mounted on the rotary
shaft of the armature portion, the drive shaft of the
compressor is mounted on the rotating field portion.
15 Once the dynamotor is operated in motor mode, the
rotational speed of the compressor is increased to the
sum of the input rotational speed and the rotational
speed of the dynamotor. The compressor is stopped by
disconnecting a power feed circuit. When the input
20 rotational speed is too high, the dynamotor is operated
in generator mode. In this way, the rotational speed is
reduced in accordance with the generated electric energy.